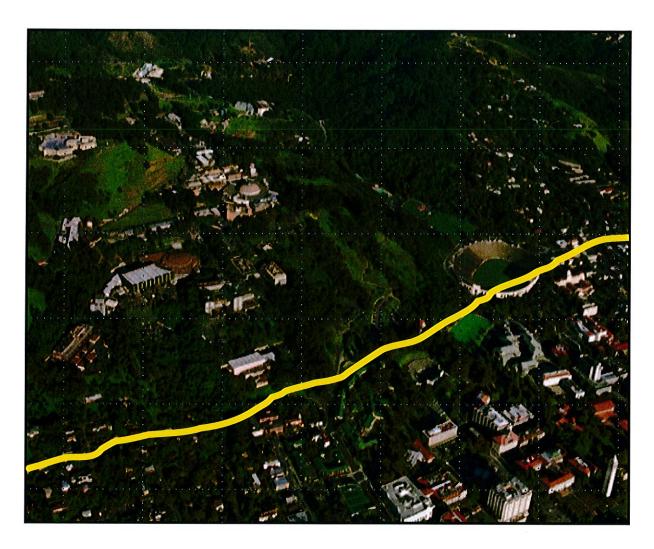
# **Emergency Management Annual Exercise**



**Date: August 18, 2010** 

Title: "Shake 'n Break" After Action Report

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LBNL/Shake 'n Break Annual Exercise Effective Date: September 2010

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#### EMERGENCY MANAGEMENT EXERCISE Shake 'n Break

#### **Exercise Summary**

Lawrence Berkeley National Laboratory conducted an exercise titled: 'Shake 'n Break'. The exercise was conducted at the Blackberry Gate, Buildings 26, 48, 65 and 70A on Wednesday, 08/18/10. This was a Full-scale Exercise. The purpose of the exercise was to validate the effectiveness of the emergency response organization in accordance with the site's emergency plan and procedures and the DOE Order 151.1C.

The goal of the exercise was to evaluate the Emergency Response Organization (ERO) response to an Operational Emergency (OE) that possibly required further classification. The ERO demonstrated the ability to recognize an OE, categorization and classification of the event, make emergency notifications, implement protective actions, activate the B70A Building Emergency Team (BET) and the Emergency Operations Center (EOC), operate a Joint Information Center, and issue a press release.

There were fourteen participants in the team evaluating and coordinating the exercise. They were stationed at Blackberry Gate, B26, B48, B65 and B70A.

#### **Evaluators**

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#### **Safety Officer**

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#### Simulator Cell

Walt Flannery, LBNL James Basore, LBNL Gene Tucker, LBNL

#### Exercise Scenario

At 9:00 am on Wednesday August 18th, 2010, the Lawrence Berkeley National Laboratory was struck by a 7.0 earthquake on the Hayward Fault. Numerous buildings were impacted by the carthquake. 911 and Blackberry Gate received reports of injuries and employees trapped in buildings and elevators. Communications were sporadic across the lab; land line phones as well as cell phones were impacted.

In Building 70A, a researcher was working in the fume hood of a controlled access laboratory when the earthquake occurred. Startled, the researcher cut their hand and knocked over a small vial containing a solution of uranium, spilling part of the contents on the floor. Nearby researchers in the laboratory promptly assisted the injured researcher as part of the building evacuation.

Employees evacuated buildings and went to the Emergency Assembly Areas to await further instructions. Mutual Aid for Fire and Emergency Medical Services were not available due to the impact of the event throughout the San Francisco Bay Area.

## Participant List and Levels of Participation

Participant	Level of Participation
Landmark Protection	Full
EOC	Full
Public Affairs Officer	Full
Alameda County Fire Department	Full
Health Services	Full
Exercise Control and Evaluation	Full
Industrial Hygiene	Full
Alameda County Fire/Hazmat	Full
Bio Safety Lab II	Full
Berkeley Site Office Duty Officer	Full
Berkeley Site Office Public Affairs Office	Full
Building Emergency Team	Fuli
Building Manager	Full
Emergency Contact Team	Full
Radiation Protection Group	Full
Berkeley Emergency Operations Center	Simulated
Berkeley Emergency Medical Service	Simulated
REOC	Simulated
LBNL Executive Team	Simulated
DOE Watch Office	Limited: Other
DOE Headquarters EOC	Limited: Other
Berkeley Fire Department	Limited: Other
Alameda County Regional Emergency Communications Center	Limited: Other
Alameda County Emergency Operations Center	Limited: Other
Alta Bates Summit Medical Center	Limited: Other
Environmental Safety	Limited: Other
University of California, Berkeley Police Department	Limited: Other

### Performance Definitions1

There are three possible levels of negative performance:

- Significant Adverse Condition An issue that meets one or more of the following criteria:
  - Significantly impacts the research activities or operation of LBNL
  - Requires immediate notification to external regulatory agencies (e.g., DOE Office of Health, Safety and Security, U.S. Nuclear Regulatory Commission)
  - Results in fines levied by external regulatory agencies
  - Prevents UC from maintaining its contract with DQE to operate LBNL
  - Results in considerable negative publicity or public opinion
  - Results in losses of greater than \$100K
  - Results in excess cost due to inefficiencies greater than \$500K
  - Presents a significant hazard to the safety and health of workers, environment or
    public, constitutes an adverse trend or inclination over an extended period of time, or
    is a recurring issue, as determined by formal performance evaluation or data
    monitoring and analysis.
- Finding (This term is interchangeable with Issue). A program or performance deficiency where there is a noncompliance with an established external or internal requirement. It is a generic term used to refer to programmatic or performance deficiencies, non-conformances, regulatory or procedural non-compliances, procedure inadequacies, assessment findings, external oversight findings, and associated actions that require formal corrective action. This includes, but is not limited to, a failure, defect, deviation, malfunction, deficiency, nonconformance of plant equipment, materials, procedures, personnel safety concerns or events which have or could have an effect on the safe, reliable, or efficient operation of the Laboratory, or which involve a failure to be in compliance with requirements.
- Observation A practice or condition that is not technically noncompliant with an external or internal regulation or requirement, but could lead to noncompliance if left unaddressed.

There are two levels of positive performance observation:

- Best Practice A technique or methodology that, through experience and research, has been proven to reliably lead to a desired result. It may also be a recommendation, suggested process improvement, or management or division initiative.
- Lessons Learned A lesson that is derived from an event, incident or implementation and evaluation of a system, process or program that is used to identify strengths and weaknesses. A lesson learned may be derived from an internal or external source and is used to improve systems, processes or programs.

<sup>&</sup>lt;sup>3</sup> LBNL Publications 5519(1) and 5519(4)

## Findings and Observations Performance Summary

#### **Objectives:**

- 57 objectives that were evaluated.
  - o 1 objective was not met (JIC.8); the EOC press release was not issued within 1 hour of event categorization<sup>2</sup>.
  - o 3 objectives were not applicable (EOC.4, Enviro.1, FD.13).
  - o 2 objectives were not observed (C/E.20, BSO DO.2).

#### Findings:

- 8 Findings which will be tracked through the Corrective Action Tracking System (CATS);
- 18 Observations, which although require attention, will not be entered into CATS. The Emergency Services Program will track the observations through an internal process;
- 2 noteworthy practices; and
- 1 superior performance was found.
- 2 Lessons Learned

## **Participant Performance Summary**

Organization	Number of Objectives	Met	Not Met	Findings	Improvement Items	Superior Performance	eworth actices	Not Applicable	Not Observed
Landmark Protection	4	4	0	0	1	0	0	0	0
EOC	7	6	0	2	3	0	1	1	0
Public Affairs Officer	5	4	1	1	3	0	1	0	0
Alameda County Fire Department	5	4	0	0	0	0	0	1	0
Health Services	3	3	0	0	1	0	0	0	0
Exercise Control and Evaluation	6	5	0	2	6	0	0	0	1
DOE Watch Office (simulated)	0	0	0	0	0	0	0	0	0
DOE Headquarters EOC (simulated)	0	0	0	0	0	0	0	0	0
Berkeley Fire Department (simulated)	0	0	0	0	0	0	0	0	0

 <sup>&</sup>lt;sup>2</sup> 151.1c-3 Programmatic Elements Guide Appendix D Evaluation Criteria, page D-53, P/E14.6 – b.
 P/E14.6 Communications with the media and public are timely and responsive to public concerns.
 b. An initial press statement is released as soon as possible, but within one hour of event categorization.

Organization	Number of Objectives	Met	Not Met	Findings	Improvement Items	Superior Performance	Noteworthy Practices	Not Applicable	Not Observed
Alameda County Regional Emergency Communications Center (simulated)	0	0	0	0	0	0	0	0	0
Berkeley Site Office Duty Officer	2	1	0	1	0	0	0	0	1
Berkeley Site Office Public Affairs Office	2	2	0	1	0	0	0	0	0
Building Emergency Team	9	9	0	1	2	0	0	0	0
Building Manager	2	2	0	0	2	0	0	0	0
Emergency Contact Team	4	4	0	0	0	0	0	0	0
Alameda County Emergency Operations Center (simulated)	0	0	0	0	0	0	0	0	0
Radiation Protection Group	3	3	0	0	0	1	0	0	0
Alta Bates Summit Medical Center	0	0	0	0	0	0	0	0	0
Industrial Hygiene	1	1	0	0	0	0	0	0	0
Environmental Safety	1	0	0	0	0	0	0	1	0
University of California, Berkeley Police Department	0	0	0	0	0	0	0	0	0
Alameda County Fire/Hazmat	0	0	0	0	0	0	0	0	0
Bio Safety Lab II	3	3	0	0	0	0	0	0	0
Exercise Totals	57	51	1	8	18	1	2	3	2

# Findings and Corrective Actions Summary

Berkeley Site Office Duty Officer (BSO DO)				
Finding	Recommended Corrective Action			
Finding F4: BSO Duty Officer did not complete a SitRep. Related to Objective: BSO DO.1	Develop checklist & provide SitRep forms to be used in the EOC by BSO and inform BSO staff. Responsible Organizations: Emergency Services Program coordinating with Berkeley Site Office staff Completion Date: 09/30/2010			

Berkeley Site Office Public Affairs Office (BSO PAO)				
Finding	Recommended Corrective Action			
Finding F8: Press release was not released within the 1 hour timeframe.  Related to Objective: BSO PAO.1, JIC.8	Review and/or revise procedures and roles & responsibilities for press release and conduct training.			
	Responsible Organizations: Emergency Services Program coordinating with Berkeley Site Office PAO & LBNL PAO Completion Date: 11/30/2010			

Building Emergency Team (BET) B70A					
Finding	Recommended Corrective Action				
Finding F3: Emergency Assembly Area location could be unsafe to evacuating staff from B70A.  Related to Objective: BET.2	Review location of B70A emergency assembly area. Secondary emergency assembly area by B50 (north end of parking lot) could be used. Update Building Emergency Plan and conduct BET training, if location moved.				
	Responsible Organizations: Emergency Services Program coordinating with Building Manager & Building Emergency Team Lead Completion Date: 11/30/2010				

Emergency Operations Center (EOC)				
Finding	Recommended Corrective Action			
Finding F1: EOC staff had issues with procedures and equipment use.  Related to Objective: EOC.5	Review roles and responsibilities and identify the position(s) that will be responsible for data entry for Web EOC.			
	Continue to provide general Web EOC training to all EOC staff and detailed training to designated position(s). Provide equipment procedures and training to EOC staff for fax, projector, and TV system. Add responsibility and information to the red Activation Binder checklist.jlm			
	Provide training to the EOC staff for checklist use (staff didn't check off items as they completed them – which documents actions taken).			
	Provide additional copies of checklists in EOC binders. Keep file of master copies of documents, i.e., checklists, ICS forms, in the EOC for duplication, as needed.			
	Develop roles and responsibilities for EOC support staff position(s), to include capturing times on status boards for actions taken.			
	Provide procedure and training for Incident Action Planning for General Staff, Command Staff and Plans & Intel Section Staff.			
	Responsible Organizations: Emergency Services Program Completion Date: 12/31/2010			
Finding F6: EOC sections, Plans & Intel and	Review staffing plans for EOC.			
Operations, needed more staff to perform responsibilities adequately.  Related to Objective: EOC.1	Responsible Organizations: Emergency Services Program Completion Date: 11/30/2010			

Exercise Control and Evaluation				
Finding	Recommended Corrective Action			
Finding F5: Landmark Protection Security staff stationed at Blackberry Gate was almost overwhelmed by traffic, phone calls (both exercise and real), and alarm annunciations.	Exercise planning group to include the development of shadow force staffing, in plan, for major and annual exercises.			
Related to Objective: DO.14	Landmark Protection to provide staff member to participate in plan development for major and annual exercises.			
	Responsible Organizations: Emergency Services Program Completion Date: 06/30/2011			
Finding F7: The fire access red zone in front of B70A, 3rd floor entrance, was painted over with blue paint to allow parking.	Review of fire access at B70A, 3 <sup>rd</sup> floor by Alameda County Fire, LBNL Fire Marshall, B70A Building Manager and Facilities.			
	Repaint curb area if needed.			
	Responsible Organizations: Emergency Services Program, Alameda Co. FD, Fire Marshall and Facilities. Completion Date: 11/30/2010			

LBNL Public Affairs Officer					
Finding	Recommended Corrective Action				
Finding F2: Press release was not released within the 1 hour timeframe.  Related to Objective: JIC.8	Review and/or revise procedures, roles and responsibilities, as needed, of the Public Affairs functions, including EOC and JIC positions. Conduct training and drill on procedures.				
	Responsible Organizations: Emergency Services Program, LBNL PAO & BSO PAO Completion Date: 11/30/2010				

# Observation/Improvement Items

Building Emergency Team (BET) B70A		
Observation/Improvement Item	Recommended Action	
(Objective: BET.3) I13: B70A BET members couldn't open the rescue box.	Check B70A rescue box locks and the B70A BET members' keys and reissue keys as necessary.	
	Responsible Organizations: Emergency Services Program Completion Date: 10/8/2010	
I14: Building Manager was not notified that B70A had 4 injured staff.	Review and revise as needed, roles and responsibilities of Building Manager, BET Lead and BET members during an emergency.	

Responsible Organizations: Emergency Services
Program in coordination with B70A BM & BET
Lead(s).
Completion Date: 11/30/2010

Building Manager (BM) B70A		
Observation/Improvement Item	Recommended Action	
(Objective: BM.1) 15: Building Manager also had duty as a Building Emergency Team member to sweep floor during evacuation.	Review and revise as needed, roles and responsibilities of Building Manager, BET Lead and BET members during an emergency.	
	Responsible Organizations: Emergency Services Program in coordination with B70A BM & BET Lead(s). Completion Date: 11/30/2010	
I15: There needs to be coordination for Point of Contact responsibilities between the BM and BET Leads in B70A and B70.	Review and revise as needed, roles and responsibilities of Building Manager, BET Lead and BET members during an emergency.	
	Responsible Organizations: Emergency Services Program in coordination with B70A BM & BET Lead(s) for B70A and B70. Completion Date: 11/30/2010	

Emergency Operations Center (EOC)		
Observation/Improvement Item Recommended Action		
(Objective: EOC.1) I7: The EOC was not declared operational - either verbally or noted on the status board.	Review and/or modify the EOC Director's checklist(s) to include declaration and definition, that the EOC is operational.	
	Add line to capture EOC operational declaration to status board  Responsible Organizations: Emergency Services  Program  Completion Date: 11/30/2010	
(Objective: EOC.5) 19: Overlap of responsibilities between Operations and Logistics sections.	Clarify responsibilities of Operations and Logistics sections, modify checklists, and conduct training.  Responsible Organizations: Emergency Services Program  Completion Date: 11/30/2010	
118: When facilities are being checked for building status, B26, is very low on the list of buildings.	Review and prioritize the building list for emergency, radio check-in.  Responsible Organizations: Emergency Services Program Completion Date: 11/30/2010	

	Exercise Control and Evaluation				
ſ	Observation/Improvement Item	Recommended Action			
	I2: Cell phone communications were a problem. Participants were unable to call the EOC or others due to lack of reception in the area.	Review methods and technology for improvement for cell phone reception at the Lab.			
		Responsible Organizations: Information Technology Completion Date: 12/31/2010			
H	I3: Radio communications were a problem. Need additional radio talk groups identified for EOC and exercise controller.	Provide the EOC and exercise controller with talk groups, if possible.			
		Responsible Organizations: Facilities Completion Date: 12/31/2010			
		Provide guidelines for radio communications during exercises and real events.			
		Responsible Organizations: Emergency Services Program Completion Date: 12/31/2010			
	(Objective: C/E.2) I12: Blackberry Gate didn't know if they should stop traffic from entering during exercise.	Review and/or revise emergency gate closure policy and procedure, and provide training.  Responsible Organizations: Emergency Services Program  Completion Date: 03/31/2011			
	I16: Participants didn't know what was happening at the start of the exercise.	Review and/or revise, as needed, the Exercise Plan to provide more exercise controllers to ensure participants receive a briefing at the start of the exercise.			
		Responsible Organizations: Emergency Services Program Completion Date: 06/30/2011			
	117: Controllers didn't have radios to start exercise at each event location simultaneously.	Review and/or revise, the Exercise Plan to provide radios to a controller at each event location to ensure exercise play begins simultaneously and for ongoing communication during exercise.			
		Responsible Organizations: Exercise Controller Completion Date: 6/30/2011			
	20: BET members didn't have bullhorns for crowd control or dissemination of information.	Provide bullhorns to B70A BET Lead.  Responsible Organizations: Emergency Services			
		Program Completion Date: 10/29/2010			

Health Services		
Observation/Improvement Item	Recommended Action	
(Objective: MED.5) II1: Confused patient left alone in waiting room.	Review/revise Health Services procedure to assign someone to monitor victims as needed.	
	Responsible Organizations: Health Services Completion Date: 11/30/2010	
	1	

Landmark Protection		
Observation/Improvement Item Recommended Action		
(Objective: DO.17) 16: Landmark Security rover diverted from assignment to contain area by IC. Was used for transportation of injured person.	Review roles, responsibilities and chain of command for Landmark Security staff.	
	Responsible Organizations: Emergency Services Completion Date: 12/31/2010	

Public Affairs Officer			
Observation/Improvement Item Recommended Action			
(Objective: JIC.12) 18: PIO staff had issues updating the 1-800# employee information line.	Review/revise procedures for updating 800#. Provide training for procedure.		
	Responsible Organizations: Public Affairs Office Completion Date: 11/30/2010		
(Objective: JIC.1) I10: Writing messages for website and 800# took time and had too many people involved.	Review roles and responsibilities for dissemination of information. Have pre-developed and pre-approved messages to be used at the beginning of an incident where possible.		
	Responsible Organizations: Public Affairs Office Completion Date: 11/30/2010		
(Objective: JIC.1) 119: The TV was not operational and there wasn't a printer or map available in the JIC.	Provide TV connection for monitoring events.  Provide access to printer in the JIC.  Provide maps, needed, for site information and visual presentations to the media.		
	Responsible Organizations: Public Affairs Office Completion Date: 12/31/2010		

# Noteworthy Practices

Participant: EOC Objective: EOC.4	Noteworthy Practice: N1 The On-scene Coordinator was able to provide incident information quickly and reliably to the EOC.
Participant: Public Affairs Officer Objective: JIC.1	Noteworthy Practice: N2 The PAO staff used multiple social networking sites to disseminate information regarding the incident status.

# Superior Performance

Participant: Radiation Protection Group	Superior Performance: S1 Excellent RCT & dosimeter
	support. They were prompt in response to the notice of
	contaminated victim. They built upon the Health
	Center's decon set-up and provided knowledgeable
	support and guidance to the medical staff. And
	boundaries (clean/dirty) were well monitored.

## Lessons Learned

Participant: Exercise Control and Evaluation Observation: 13	Lesson Learned: L1The use of the Building Managers' radio talk group caused confusion during the exercise.  The EOC and the Exercise Control group need separate talk groups for use both during an exercise as well as during a real incident.
Participant: Landmark Security	Lesson Learned: L2 The Landmark Security staff, at Blackberry Gate, provided traffic and gate entrance control, monitored building alarms, phones and radio communications, as well as participated in the exercise. These are too many tasks to be expected from security gate staff.

# Exercise Objectives

	Alameda County Fire Department (ACFD)			
Alameda County Fire Department was assigned and evaluated against 5 Exercise Objectives.				
They met 4	4 of the assigned objectives and fail	led to meet 0.		
Obj. Id.	Objective Statement	Results	Comments	
FD.9	Given an established incident command system, assess the response element capability and request assistance in accordance with the Alameda County Fire/Hazmat procedures.	Met	Incident Commander can also request non-Fire Mutual Aid support through the Emergency Operations Center, i.e., transport for injured staff.	
FD.11	Given an emergency, Alameda County Fire/Hazmat FD will arrive on scene and establish ICS in accordance with Alameda County Fire/Hazmat policies and procedures.	Met		
FD.12	Given an emergency ACFD will provide on scene command for HAZMAT, emergency medical and rescue assets in	Met	ACFD crew demonstrated the triple blanket wrap for contaminated victim.	

	accordance with Alameda County Fire/Hazmat policies and procedures.		
FD.13	Given an emergency ACFD will conduct fire fighting operations in accordance with Alameda County FD policies, MEPP 2009, 2.2, EPIP 002-3.	Not Applicable	No fire fighting operations needed at B70A.
FD.14	Given an emergency ACFD will conduct search and rescue operations in accordance with Alameda County FD policies, MEPP 2009, 2.2, EPIP 002-3.	Met	

	Berkeley Site Office Duty Officer			
	Berkeley Site Office Duty Officer was assigned and evaluated against 2 Exercise Objectives.			
They met	of the assigned objectives and fai	led to meet 0.		
Obj. Id.	Objective Statement	Results	Comments	
BSO	Given an operational	Met	F4:	
DO.1	emergency the BSO Duty		!	
1	Officer will ensure a			
	communications link is			
	established with DOE HQ			
	EOC, BSO and LBNL for the			
	provision of briefings, status,			
	reports and requests for			
	information. DOE BSO			
	Standard Operating Procedure			
	(BSO-SOP-151.c), MEPP			
	2009, 2.3.2.			
BSO	Given an operational	Not Observed	BSO Duty Officer	
DO.2	emergency the BSO Duty		simulated requesting	
	Officer will coordinate the		additional BSO staff.	
	recall of additional BSO			
]	staffing during an emergency.			
	DOE BSO Standard Operating			
	Procedure (BSO-SOP-151.c),			
	MEPP 2009, 2.3.2.			

	Berkeley Site Offic	e Public Affairs (	Office		
	ite Office Public Affairs Office was				
Objectives	. They met 2 of the assigned object	ives and failed to	meet 0.		
Obj. Id.	Objective Statement Results Comments				
BSO	Given an operational	Met	F8:		
PAO.1	emergency BSO PAO will				
	coordinate and collaborate with				

	LBNL PAO to develop and disseminate incident information in accordance with MEPP 2009, 6.2.8, EPIP 001-5.		
BSO PAO.2	Given an operational emergency, BSO PAO will brief the BSO Emergency Manager on communications issues and timely news release review and approval in accordance with MEPP 2009, 6.2.8, EPIP 001-5.	Met	

Bio Safety Lab II					
Bio Safety	Bio Safety Lab II was assigned and evaluated against 3 Exercise Objectives. They met 3 of the				
assigned of	assigned objectives and failed to meet 0.				
Obj. Id.	Objective Statement	Results	Comments		
Bio Lab	Given an earthquake and B70A	Met			
II.1	building evacuation, at least				
	one of the Biosafety Level II				
	laboratory PIs that may be in		i		
ľ	the laboratory during the				
	earthquake should ensure that				
	the select agents that are in				
	storage remain secured in their				
	freezers while evacuating the				
	Biosafety Level 2 laboratory in				
1	accordance with the Incident				
	Response Plan section (pages				
	26-30) of the Biosafety,				
	Security, and Incident				
	Response Plan for Select				
	Agents.				
Bio Lab	Given a building evacuation,	Met			
II.2	B70A, Bio Safety Lab II PI				
	shall make contact with the				
	BET Lead to report status of				
	evacuated Bio Safety Lab II in				
	accordance with the Security				
}	Plan: Biosafety, Security, and				
	Incident Response Plan for				
	Select Agents, Reporting				
5	Incidents section, page 24.				
Bio Lab	Given a B70A building	Met			
II.3	evacuation, the Biosafety Level		ļ		
	II laboratory PI should make				

	contact with the BET Lead or	· · · · · · · · · · · · · · · · · · ·	
	Incident Commander to report		
	the status of evacuated		
İ	Biosafety Level II laboratory		
Ī	and shall ensure that the		
	evacuation incident is reported		
	in accordance with the		
	Biosafety, Security, and		
	Incident Response Plan for		
	Select Agents, Reporting		
	Incidents section, page 24		

Building Emergency Team (BET)				
	Building Emergency Team was assigned and evaluated against 9 Exercise Objectives. They			
	e assigned objectives and failed to			
Obj. Id.	Objective Statement	Results	Comments	
BET.1	Given a building evacuation, staff shall evacuate building safely in accordance with MEPP 2009, 2.3.6.5 and BET Evacuation Guidelines. LBNL/PUB-540 Rev April 1, 2003, EPIPs 002-1, 002-8,	Met	Keep all employees moving towards the exits, including any injured "walking wounded" staff.	
BET.2	O02.9, 004-1.  Given a building evacuation, staff shall exit to designated assembly areas in accordance with MEPP 2009, 2.3.6.5 and BET Evacuation Guidelines.  LBNL/PUB-540 Rev April 1, 2003, EPIPs 002-1, 002-8, 002.9, 004-1.	Met	F3:	
BET.3	Given a building evacuation, BET had their personal protective equipment (vests and hard hats) in accordance with MEPP 2009, 2.3.6.5 and BET Evacuation Guidelines. LBNL/PUB-540 Rev April 1, 2003, EPIPs 002-1, 002-8, 002.9, 004-1.	Met	I13: Majority of BET members had their hats and vests.	
BET.4	Given a building evacuation, BET removed trauma kits from building in accordance with MEPP 2009, 2.3.6.5 and BET Evacuation Guidelines.	Met		

BET.5	LBNL/PUB-540 Rev April 1, 2003, EPIPs 002-1, 002-8, 002-9, 004-1.  Given a building evacuation, BET removed radios from building in accordance with MEPP 2009, 2.3.6.5 and BET Evacuation Guidelines.  LBNL/PUB-540 Rev April 1, 2003, EPIPs 002-1, 002-8,	Met	
BET.6	002.9, 004-1. Given a building evacuation, BET conducted a sweep of the building in accordance with MEPP 2009, 2.3.6.5 and BET Evacuation Guidelines. LBNL/PUB-540 Rev April 1, 2003, EPIPs 002-1, 002-8, 002.9, 004-1.	Met	
BET.7	Given a building evacuation, BET conducted accountability and reported the results to the BET lead or incident commander in accordance with MEPP 2009, 2.3.6.5 and BET Evacuation Guidelines. LBNL/PUB-540 Rev April 1, 2003, EPIPs 002-1, 002-8, 002-9, 004-1.	Met	Accountability provided by sweep results. If all sweeps completed and the BET didn't have anyone left behind, building considered cleared of staff.
ВЕТ.8	Given a building evacuation, BET shall make contact with the EOC in accordance with MEPP 2009, 2.3.6.5 and BET Evacuation Guidelines. LBNL/PUB-540 Rev April 1, 2003, EPIPs 002-1, 002-8, 002.9, 004-1.	Met	
BET.10	Given an emergency will provide first aid in accordance with MEPP 2009, 2.3.6.5 and BET Evacuation Guidelines. LBNL/PUB-540 Rev April 1, 2003, EPIPs 002-1, 002-8, 002.9, 004-1.	Met	

## Building Manager (BM)

Building Manager was assigned and evaluated against 2 Exercise Objectives. They met 2 of the assigned objectives and failed to meet 0.

Obj. Id.	Objective Statement	Results	Comments
ВМ.1	Given an operational emergency the Building Manager will provide Incident Commander duties until relieved by first responder IC, in accordance with MEPP 2009, 2.3.6.4 and BET Evacuation Guidelines. LBNL/PUB-541 Effective Date: April 1, 2003, EPIP 004-1.	Met	15:
BM,2	Given an operational emergency Building Manager will provide situational information to first responders in accordance with MEPP 2009, 2.3.6.4 and BET Evacuation Guidelines. LBNL/PUB-541 Effective Date: April 1, 2003, EPIP 004-1.	Met	

	Emergency Co	ontact Team (ECT)	
	y Contact Team was assigned and e		rcise Objectives. They met
	signed objectives and failed to mee	t 0.	
Obj. Id.	Objective Statement	Results	Comments
ECT.1	Given an event, the ECT shall collect information to determine whether there is an Operational Emergency in accordance with MEPP 2009, 2.2, 2.3.3, 5.1.1, 5.1.2, 5.1.3, EPIP 001-1, 001-2, 001-4, 005-	Met	
ECT.2	Given an event, the ECT shall categorize and classify the event in accordance with MEPP 2009, 2.2, 2.3.3, 5.1.1, 5.1.2, 5.1.3, EPIP 001-1, 001-2, 001-4, 005-1.	Met	
ECT.3	Given an operational emergency that has been categorized and classified,	Met	

	made regulatory notifications in accordance with MEPP 2009, 2.2, 2.3.3, 5.1.1, 5.1.2, 5.1.3, EPIP 001-1, 001-2, 001-4, 005-1.		
ECT,4	Given an operational emergency, ECT shall activate the Emergency Response Organization in accordance with MEPP 2009, 2.2, 2.3.3, 5.1.1, 5.1.2, 5.1.3, EPIP 001-1, 001-2, 001-4, 005-1.	Met	

	Environ	mental Safety	
Environme	ental Safety was assigned and evalu	ated against 1 Exerc	se Objectives. They met 0 of
	d objectives and failed to meet 0.	-	•
Obj. Id.	Objective Statement	Results	Comments
Enviro.1	Given an operational emergency, Environmental Safety will provide Environmental Safety specialist(s) (SME) support to the IC and/or EOC as needed, in accordance with MEPP 2009, 4.1.4, EH&S policies and procedures.	Not Applicable	Environmental Safety SME not requested.

Emergency Operations Center (EOC)					
EOC was a	EOC was assigned and evaluated against 7 Exercise Objectives. They met 6 of the assigned				
objectives	and failed to meet 0.				
Obj. Id.	Objective Statement	Results	Comments		
EOC.1	Given an Operational	Met	I7, F6:		
i	Emergency, staff and activate				
ľ	the EOC in accordance with	1			
	MEPP September, 2009, 2.2,				
	2.3.4, 2.3.5, 4.1.2. EPIP 001-6				
EOC.2	Given adequate staff to make	Met			
	the EOC operational, conduct a				
	formal briefing and turnover of				
ŀ	ED duties in accordance with				
	MEPP September, 2009, 2.2,				
	2.3.4, 2.3.5, 4.1.2. EPIP 001-6				
EOC.4	Given event information, adjust	Not Applicable	N1: No adjustments		
<u> </u>	protective actions and		needed to protective		
i	protective action		actions.		
	recommendations in				

	accordance with MEPP September, 2009, 2.2, 2.3.4, 2.3.5, 4.1.2, EPIPs 002-1, 002- 8, 002-9.		
EOC.5	Given an Operational Emergency, maintain and process event information reflecting site conditions, personnel safety, hazard conditions, mitigation, significant events, action items, and other event information in accordance with MEPP September, 2009, 2.2, 2.3.4, 2.3.5, 4.1.2, EPIPs 002-1, 002- 8, 002-9.	Met	I9, F1: Hard copies of ICS forms should be available for use in EOC.
EOC.6	Given an operational EOC, provide event information to the JIC, State EOC, Tribal Government, and DOE-HQ OC in accordance with MEPP September, 2009, 2.2, 2.3.4, 2.3.5, 4.1.2, EPIPs 002-1, 002-8, 002-9.	Met	
EOC.13	Given an emergency, the EOC staff will activate the SMEs in accordance with MEPP September 2009, policies and procedures.	Met	
EOC.14	Given an activated EOC, Operations Section will provide security to control access to EOC in accordance with policies and procedures.	Met	

	Exercise Contro	l and Evaluatio	π
Exercise C	Control and Evaluation was assigned a	nd evaluated aga	ninst 6 Exercise Objectives.
They met 5	of the assigned objectives and failed	to meet 0.	
Obj. Id.	Objective Statement	Results	Comments
C/E,1	The exercise plan is developed in coordination and with input from all major participating organizations MEPP 2009, EPIP 003-3.	Met	
C/E.2	The exercise plan is approved by all major participating	Met	I12:

	organizations MEPP 2009, EPIP 003-3.		
C/E.14	Given the termination of the emergency management/preparedness drill/exercise, the lead controllers facilitate (when requested by the lead responder) the post-drill/exercise organizational critique/hotwash MEPP 2009, EPIP 003-3.	Met	
C/E.18	Given completion of an emergency management/preparedness drill/exercise, the Evaluator and Controller Organization staff attends the post exercise evaluator and controller debrief MEPP 2009, EPIP 003-3.	Met	
C/E,19	Given completion of an emergency management/preparedness drill/exercise, draft and technically review the After Action Report MEPP 2009, EPIP 003-3.	Met	
C/E.20	Given completion of an emergency management/preparedness drill/exercise and a completed After Action Report, manage the approval of the AAR and submission of issues into the site's tracking system MEPP 2009, EPIP 003-3.	Not Observed	AAR is in process, not due till 9/30/10.

	Health	Services				
Health Services was assigned and evaluated against 3 Exercise Objectives. They met 3 of the assigned objectives and failed to meet 0.						
Obj. Id.	Objective Statement Results Comments					
MED.3	Given an emergency event with injured personnel, LBNL Health Clinic will provide triage and treatment at B26 as	Met	Rad contamination victim was triaged, but not tagged.			

		<u> </u>	
	needed in accordance with		
	MEPP 2009, 4.1.4, 9-		
	Emergency Medical Support,		
	and Health Services Disaster		
	Manual.		
MED.4	Given an emergency, LBNL	Met	
	Health Clinic will receive	ł	
	contaminated, injured		
	employee(s) from ACFD in		
	accordance with MEPP 2009,		
	4.1.4, 9- Emergency Medical		
	Support, and Health Services	İ	1
	Disaster Manual.	ĺ	
MED.5	Given an emergency, Health	Met	II1: Radio not monitored
	Services will communicate		at times. Staff member
	injury information to the EOC		should be assigned to
	in accordance with Health		monitor radio.
	Services Disaster Manual.		

	Industri	al Hygiene	
Industrial :	Hygiene was assigned and evaluated	against 1 Exercise O	bjectives. They met 1 of
	ed objectives and failed to meet 0.	<del>"</del>	•
Obj. Id.	Objective Statement	Results	Comments
Ind	Given an operational	Met	
Hyg.1	emergency, Industrial Hygiene		
	will provide Industrial Hygiene		
	specialist(s) (SME) support to		
	the IC and/or EOC as needed in		
	accordance with MEPP 2009,		
	4.1.4, policies and procedures.		

	Landmark	Protection						
	Landmark Protection was assigned and evaluated against 4 Exercise Objectives. They met 4 of							
the assigne	ed objectives and failed to meet 0.							
Obj. Id.	Objective Statement	Results	Comments					
DO.14	Given an emergency Landmark Protection will collect incident information in accordance with MEPP 2009, 2.2, 2.3.6.6, 5.3 and procedures, EPIP 001-1, 001-2, 001-4, 002-8, 002-9, 002-10.	Met	F5:					
DO.15	Given an emergency Landmark Protection will dispatch rover to incident in accordance with MEPP 2009, 2.2, 2.3.6.6, 5.3	Met						

	and procedures, EPIP 001-1, 001-2, 001-4, 002-8, 002-9, 002-10.		
DO.16	Given an emergency Landmark Protection will notify ECT of incident in accordance with MEPP 2009, 2.2, 2.3.6.6, 5.3 and procedures, EPIP 001-1, 001-2, 001-4, 002-8, 002-9, 002-10.	Met	
DO.17	Given an emergency Landmark Protection will control access to the incident area in accordance with MEPP 2009, 2.2, 2.3.6.6, 5.3 and procedures, EPIP 001-1, 001-2, 001-4, 002-8, 002-9, 002-10.	Met	16:

	LBNL Publi	ic Affairs Officer					
Public Affairs Officer was assigned and evaluated against 5 Exercise Objectives. They met 4 of							
	the assigned objectives and failed to meet 1.						
Obj. Id.	Objective Statement	Results	Comments				
JIC.1	Given an Operational Emergency, staff and make operational the JIC in accordance with MEPP 2009, 6.2.6, 6.2.7 and PAO procedures, EPIP 001-5.	Met	N2, 110, 119: Overall - JIC was made operational. This was the first time that the PAO staff had set up the JIC. The staff monitored the media via the internet.				
JIC.8	Given an operational EOC, LBNL PAO will process press release(s) in accordance with MEPP 2009, 6.2.6, 6.2.7 and PAO procedures, EPIP 001-5.	Not Met	F2, F8: PAO/PIO staff were focused on working with the JIC staff to provide information to LBNL staff via the web and the 800#.				
JIC.10	Given an emergency, PAO will activate and staff the site EOC in accordance with MEPP 2009, 6.2.6, 6.2.7 and PAO procedures, EPIP 001-5.	Met	·				
JIC.11	Given an emergency PAO will update incident information on the LBNL website in accordance with MEPP 2009, 6.2.6, 6.2.7 and PAO	Met					

	procedures, EPIP 001-5.			·
JIC.12	Given an emergency PAO will update the 1-800 number to reflect incident information in accordance with MEPP 2009, 6.2.6, 6.2.7 and PAO procedures, EPIP 001-5.	Met	18:	

	Radiation Prot	ection Group (RP	G)
Radiation	Protection Group was assigned and	l evaluated against	
	ne assigned objectives and failed to	meet 0.	
Obj. Id.	Objective Statement	Results	Comments
RPG.1	Given an emergency, the	Met	RCT responded to the 1st
	Radiation Protection Group		floor, where the HERL lab
	will provide equipment and		is located. RCT members
	expertise needed to respond to		also responded to B26 to
	a radiological accident and will		support the medical staff.
	return the facility to a useable		
	condition in accordance with		
	the RPG Emergency Response		
	Procedure.		
RPG.2	Given an emergency Radiation	Met	
	Protection Group will provide		
	Radiation Protection		
	specialist(s) (SME) support to		
	the IC and/or EOC as needed,		
	in accordance with MEPP		
	2009, 4.1.4, RPG protocols.		
RPG.3	Given an event, RPG will	Met	
	dispatch a SME to the incident		
	and provide screening for		
	possible contaminated persons		
	as needed, in accordance with		
	MEPP 2009, 4.1.4, EH&S		
	policies and procedures.		

# Annual Exercise Debrief/Hotwash Participants

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Bill Milligan	Randall West	Jeff Bramble	Kevin Hartnett	Marissa Smithwick
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